

### State Well Report

#### Part 1 - Driller's Log

Mississippi Department of Environmental Quality  
 Office of Land and Water Resources  
 P.O. Box 10631  
 Jackson, MS 39289-0631  
 (601)961-5210  
 (601)354-6938 (fax)

For Office Use Only:

Aquifer: \_\_\_\_\_  
 Well #: D-163  
 L. S. Elevation: \_\_\_\_\_  
 E-log #: \_\_\_\_\_

County: Choctaw  
 Permit #: \_\_\_\_\_  
 Driller: Randy Sakers  
 Date drilling completed: 8-24-07

*State Law requires that this report be prepared by the license holder responsible for the work and filed with the Department at the above address within 30 days of completion of drilling of the well or borehole.*

Information on Well Owner <i>(Landowner if borehole is not for a water well)</i>	Well or Borehole Location
Owner Name: <u>MS Lignite Mining Co.</u>	Latitude: <u>33° 22' 44"</u> Longitude: <u>89° 14' 16"</u>
Mailing Address: <u>1000 McIntire Rd</u> <u>Ackerly, MS 39235</u>	Method of Lat/Long (circle one): Conventional Survey, <u>NE</u> USGS quad, Hand-held GPS, <u>Survey-grade GPS</u>
City: _____ State: _____ Zip Code: _____	<u>3</u> 1/4 <u>SW</u> 1/4 Sec <u>34</u> Twn <u>18N</u> Rng <u>10E</u>
Telephone No. ( <u>662</u> ) <u>387-5200</u>	Distance: <u>2.5</u> Miles Direction: <u>NW</u> of Nearest Town: <u>Chester</u>

**Well / Borehole Data**

Date drilling started: 8-21-07 Date drilling completed: 8-24-07 Hole depth: 410 Hole diameter: 4 3/4

Location of the source of any surface water used for drilling: Little River Creek

Method of dosing and volume of Chlorine used in drilling and development: 1 gal bleach to 50 gal water

Logs run (circle all applicable): No log run Electric Gamma Ray Density Sonic Neutron Other: \_\_\_\_\_

Name of organization running log(s): MDER

Purpose of borehole (check one): Water Well  Geotechnical/Geological Investigation \_\_\_\_\_ Ground Source Heat Pump \_\_\_\_\_

Seismic Survey \_\_\_\_\_ Other (describe) \_\_\_\_\_

*If drilling is not related to water well construction, skip the remainder of this block*

Purpose of Well (check one): Home  Industrial Public Supply Irrigation Fish Culture Other: \_\_\_\_\_

If a flowing well, method of flow regulation: Valve \_\_\_\_\_ Other (describe) \_\_\_\_\_

Static Water Level: 206 feet above or below (circle one) land surface Date measured: 8-29-07

Method of Measurement (circle one) steel tape electric tape air line other: \_\_\_\_\_

Well depth: 410 Well grouted to a depth of 315 feet Type of grout (circle one): Neat Cement Bentonite Mix

Casing length: 320 feet Casing diameter: 4 inches Type of casing: PVC

Screen length: 40 feet Screen diameter: 4 inches Type of screen: PVC

Screen slot size: 0.01 inches Setting depth: From 320 feet to 380 feet

Type of completion (circle all applicable): Gravel packed Underreamed Telescoped Open hole Natural Development

Other (describe): \_\_\_\_\_

Top of lap pipe or reduction in casing: \_\_\_\_\_ feet. *If telescoped or more than one screen, describe on next page*

Form: OLWR-SWR-1A

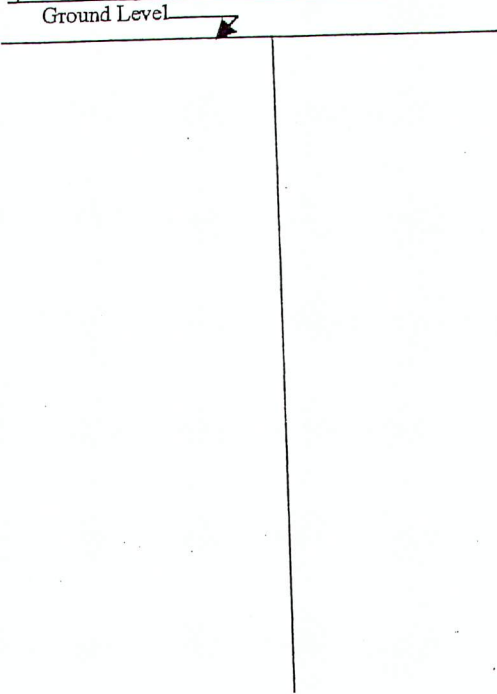
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D-~~165~~  
163

The sketch below only required for water wells

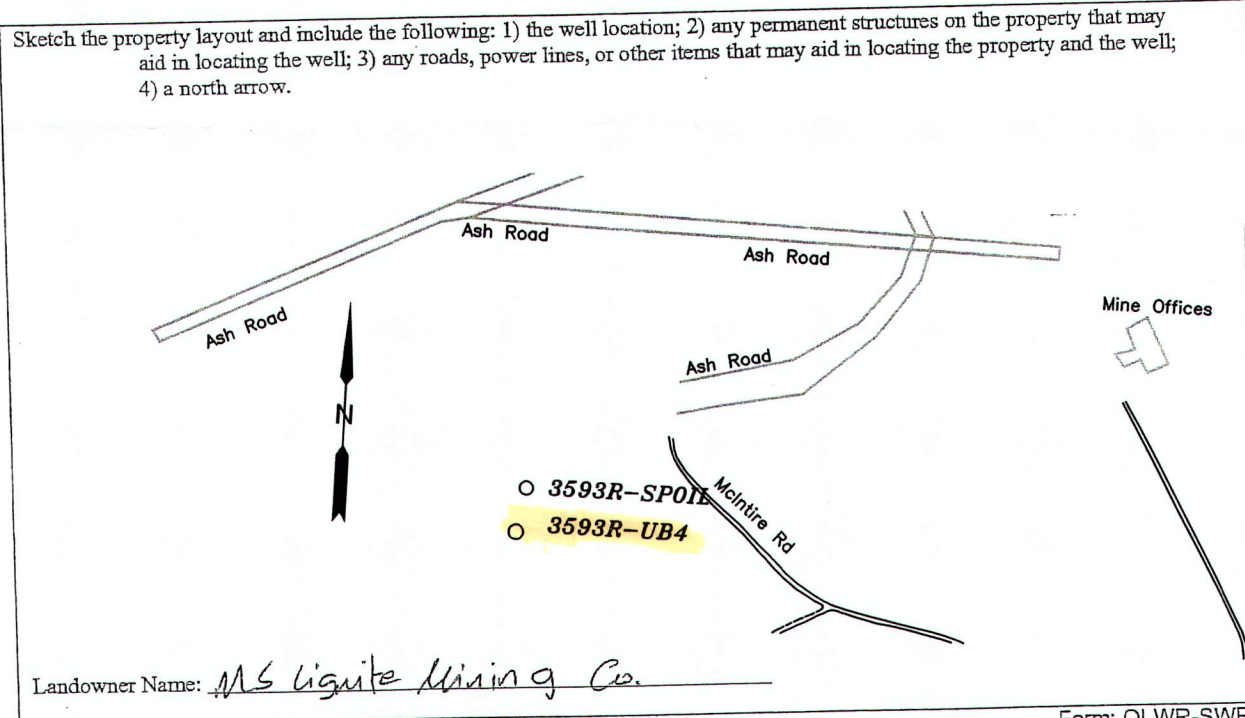
Description of formations encountered must be provided for all wells and boreholes, unless specifically exempted by regulations

If well telescopes, show depths on sketch.



Description of Formations Encountered	From (depth)	To (depth)
	Ground Level	150
clay	150	185
sandy clay	185	260
clay	260	275
sand	275	330
clay	330	400
sand	400	430
clay	430	445
sand	445	540
clay		

If more than one screen, show location of each on sketch



Form: OLWR-SWR-1A

I certify that the well/borehole was drilled, constructed, and completed in accordance with all applicable requirements of the Mississippi Department of Environmental Quality and the Mississippi Department of Health regulations, if applicable, and state laws.

Randy SALEYS MSLIC 0779GM 8-24-07 Randy Saleys

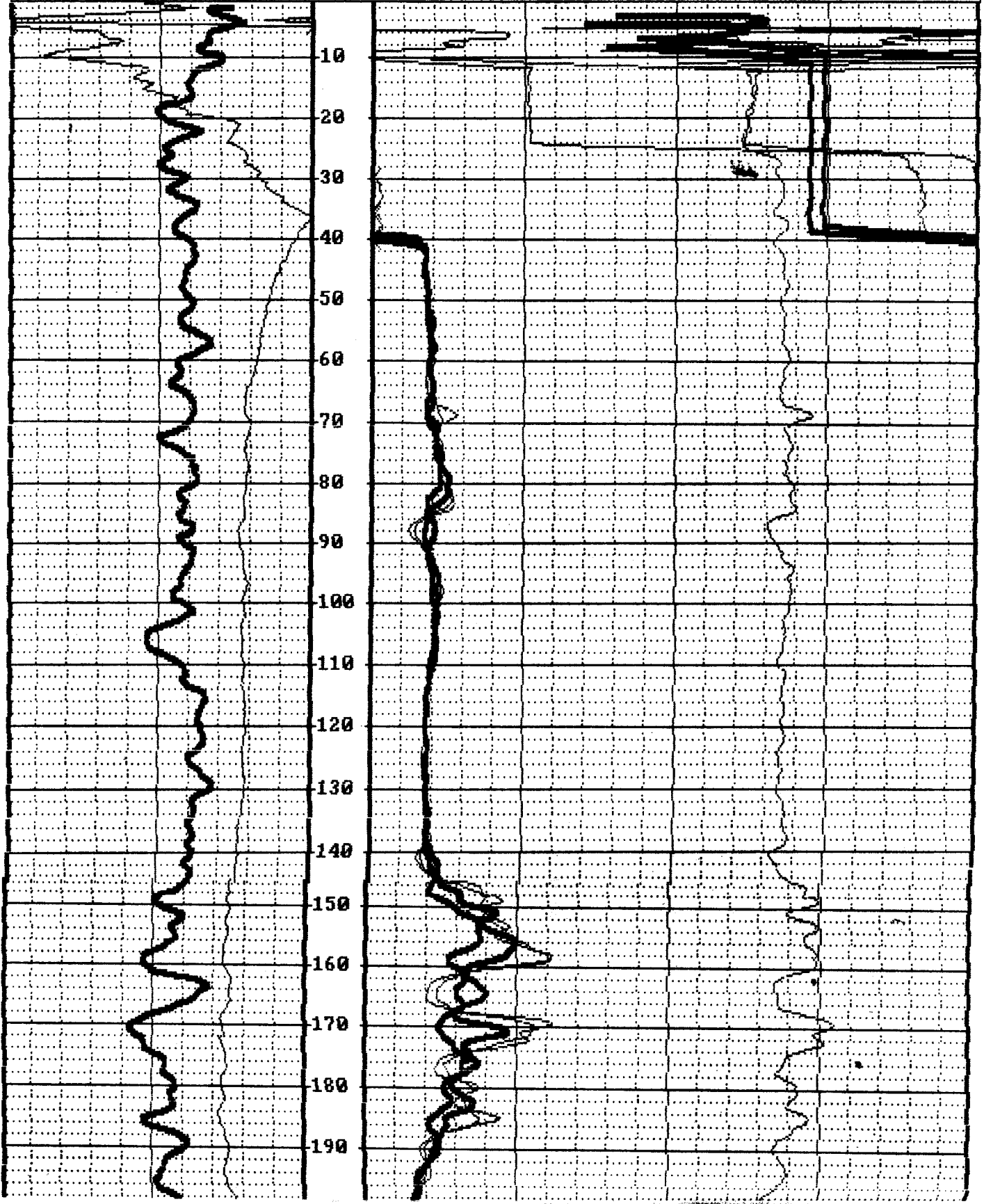
Print Name of Responsible Licensee and License No.      Date      Signature of Licensee

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Choctaw Co. / Signik Mine  
33 22 44 / 891416

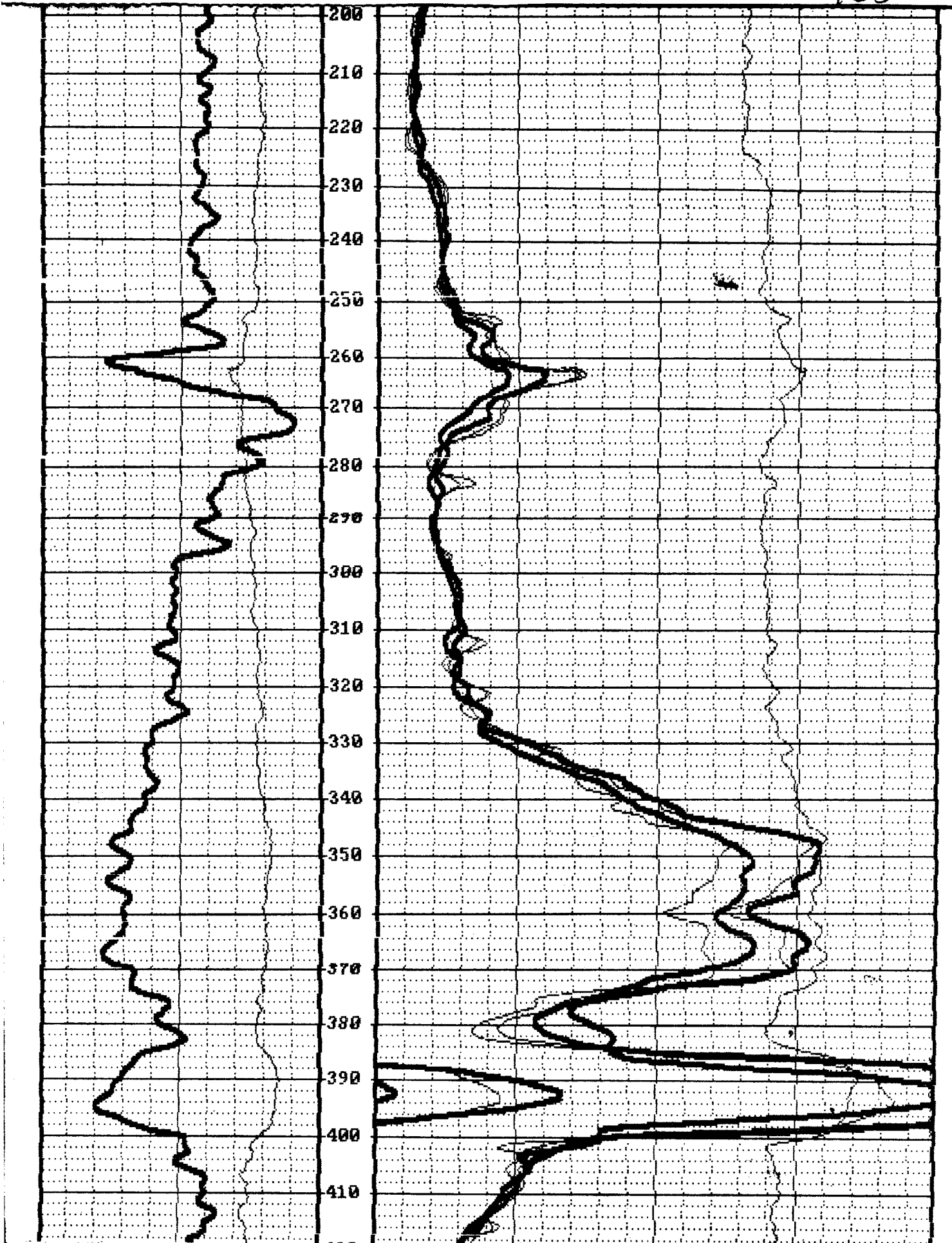
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163

805.51 95.63 86.92 -130.11 -171.12 -64.77 -59.55  
100 ohm-m  
100 ohm-m  
100 ohm-m  
100 ohm-m  
150 ohm-m  
Gamma 125 CPS  
SP 300 MV  
R32  
R16  
R8  
K0 R

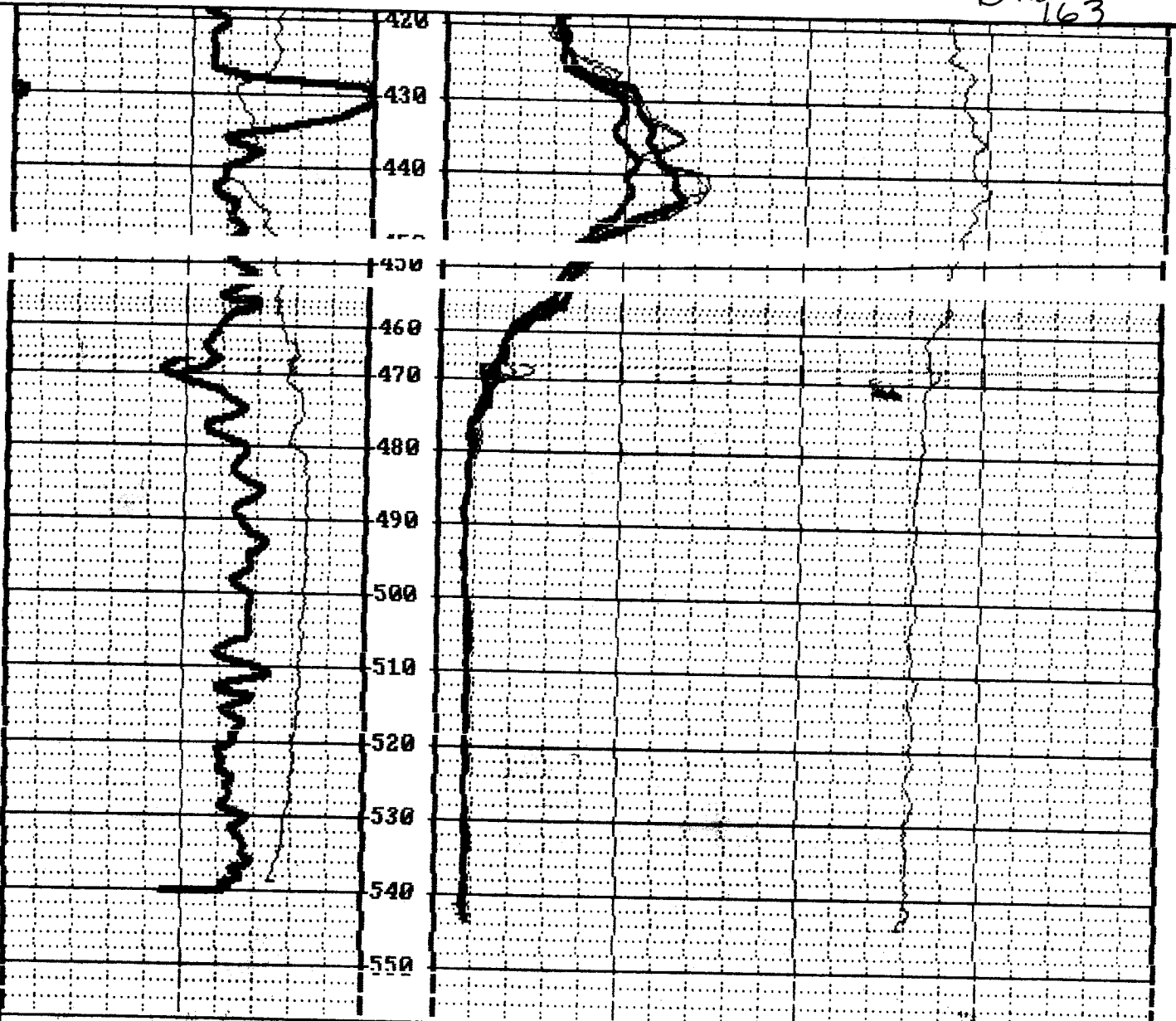




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DHS  
163



41.06	447.00	95.70	4.15	3.83	3.78	3.44	100 ohm-m
			R0	R32		100 ohm-m	
			K0	R16		100 ohm-m	
			R0	R0		100 ohm-m	